## Center for the Design of Molecular Function Biocatalysis

Linda Powers/Utah State University/Logan, Utah

and environmental applications and monitoring; and 3) provide this information and specialized tools of its utilization to the scientific and engineering community. molecular function which includes the development of real-time time-resolved spectroscopic technology; 2) apply this basic knowledge and technology to biomedical Technology has expanded to become the National Center for the Design of Molecular Function. The goals are to 1) establish the underlying bases for the design of Established in 1988. With funding of approximately \$1.8 M from the NIH Biomedical Research Technology Program, the Center for Biocatalysis Science and

## Technologies ket analysis has

mation, data analysis ecent market growth nandling, and lopments in peen largely due to nology has appeared tical instrumentation n that although new ination of existing iques

> and analysis device. processing data collection

spectroscopic systems, two prototypes of three new

Center currently has

flow apparatuses, and parallel

not only increases our ers our spectroscopic ble new products but is currently in patent a new environmental test and groundwater. contaminated soils and development for and EPA and DOE have Envirol, Inc. has been formed A new start-up company, treatment technology which Utah businessmen has yielded A project sponsored by two indicated they will fund the application.

## Economic Impact

enhanced instrumentation for Utah-based companies. general analytical use has a large Utah, but to enhance growth of instrumentation companies to designed not only to attract larger established market and these are techniques and significantly The development of new

general use instrumentation and established Utah companies such an example. Utah companies as sole suppliers. products are integral parts of the products offers a unique •The development of "niche" will render the start-up and smaller Furthermore, these "niche" for start-up and smaller opportunity with little competition The new company, Envirol, Inc., is

## Center for Design of Molecular Function

Environmental Technology

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Established in July 1993 to improve economic opportunity and productivity for the state through the immediate application of environmental technologies. The work involves the application of chemistry and instrumentation to contaminated soils and ground water for characterization, monitoring and treatment.

Overview		Technologies	<u>Status</u>	Economic Impact
1994-95 State Contract	0	•A test kit has been	•The Center is presently	•The impact to the Utah
		developed that is rapid,	in the process of	economy would come from the
Matching Funds	\$570,000	inexpensive and portable - for	developing a field test kit	success of the small business
Cumulative	\$1,157,745	hazardous waste site	for pentachlorophenol	that will market this
		characterization and	(PCP) in soil. As part of	technology, as well as from an
Center Related Jobs	;	monitoring. The test kit can	this development, the	influx of funds for additional
Industry Jobs Created	-	be used to detect chlorinated	test kit is being	research. The state of Utah
		hydrocarbons such as	evaluated by the U.S.	would also benefit from the
Benefiting Utah Companies:		pentachlorophenol,	EPA. In May 1994 a	reduced costs required to
1994 Spin-off Companies	0	trichloroethylene, and PCBs.	report was submitted to	characterize contaminated
Cum. Spin-off Companies	0	The test kit utilizes a novel	the EPA that will be	sites within the state.
Patents Applied	•	analytical method and	used in the evaluation	Additional money for other
Patents Issued	0	innovative instrumentation.	process.	research would come from
License Agreements	-			increased EPA involvement in
				the area.